REQUEST

For receiving Office use only
International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty. Applicant's or agent's file reference (if desired) (12 characters maximum) 2001/13 PCT Box No. I TITLE OF INVENTION COMBINATION AIR SHIELD AND TENSION GATE APPARATUS AND OPERATING PROCESS Box No. II **APPLICANT** This person is also inventor Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Telephone No. 011 49 69 80 66 5441 Facsimile No. ARTEVA TECHNOLOGIES S.a.r.I. 011 49 69 80 66 5741 Talstrasse 80 Teleprinter No. 8001 Zurich, CH Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: LU CH This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only DeBenedictis, Mach A. applicant and inventor 184 Longboat Road Mooresville, North Carolina 28117-8202 inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: US This person is applicant all designated all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: common X agent representative Name and address: (Family name followed by given name; for a legal entity, full official designation.

The address must include postal code and name of country.) Telephone No. 704-366-6642 CLEMENTS, Gregory N., and DOUGHERTY, Ralph H. Facsimile No. DOUGHERTY & CLEMENTS LLP 704-366-9744 6230 Fairview Road, Suite 400 Teleprinter No. Charlotte, North Carolina 28210 US Agent's registration No. with the Office 30,713//25,851 Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

BOX NO. V DESIGNATION OF STATES	Mark the applicable check-boxes below; at least one must be marked.
The following designations are hereby made un	uder Rule 4.9(a):
Regional Patent	,
· ·	C. I. Why
SL Sierra Leone, SZ Swaziland, TZ U a Contracting State of the Harare Proto	Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudar Inited Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which i ocol and of the PCT
EA Eurasian Patent: AM Armenia, AZ	Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldovan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasia.
DA Denmark, ES Spain, FI Finland, I	E Belgium, CH & LI Switzerland and Liechtenstein, CY Cyprus, DE Germany FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourgortugal, SE Sweden, TR Turkey, and any other State which is a Contracting State of the PCT
GA Gabon, GN Guinea, GW Guinea-B other State which is a member State of	Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired
National Patent (if other kind of protection or	treatment desired, specify on dotted line)
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= <u>=</u>	GH Ghana
	GM Gambia MZ Mozambique HR Croatia
AM Armenia	HU Hungary NO Norway NO Norway NO Norway
AT Austria	ID Indonesia PL Poland
AU Australia	IL Israel
AZ Azerbaijan	IN India
BA Bosnia and Herzegovina	IS Iceland RU Russian Federation
200	JP Japan
BG Bulgaria	KE Kenya SD Sudan
BR Brazil	KG Kyrgyzstan
BY Belarus	KP Democratic People's Republic SG Singapore
BZ Belize	of Korea
CA Canada	KR Republic of Korea
CH & LI Switzerland and Liechtenstein	KZ Kazakhstan
CN China	LC Saint Lucia TJ Tajikistan
	LK Sri Lanka TM Turkmenistan
CR Costa Rica	LR Liberia TR Turkey
CU Cuba	LS Lesotho
CZ Czech Republic	LT Lithuania
DE Germany	LU Luxembourg TZ United Republic of Tanzania
DK Denmark	IV Latvia
M DM Dominica	MA Morocco UG Uganda
🛣 DZ Algeria 🔀	MD Republic of Moldova US United States of America
EC Ecuador	omed States of Affected
EE Estonia	MG Madagascar UZ Uzbekistan
ES Spain	MK The former Yugoslav Republic of VN Viet Nam
FI Finland	Macedonia
	MN Mongolia ZA South Africa
	MWMalawi ZW Zimbabwe ZW Zimbabwe
GE Georgia	Es 24 Zimodowc
Check-boxes below reserved for designating State	es which have become party to the PCT after issuance of this sheet:
1 i i i i i i i i i i i i i i i i i i i	OM Oman en IN Lunisia
GQ Equitorial Guines	ZM Zambia
Precautionary Designation Statement: In additional	tion to the designations made above, the applicant also makes under Rule 4.9(b) all
ther designations which would be normitted and	and a solutions indee above, the applicant also makes under Rule 4.9(b) all

ould be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Sheet	No			3	

Box No. VI PRIORITY CLAIM				
The priority of the following	g earlier application(s) is here	by claimed:		
Filing date of earlier application			Where earlier application	is:
(day/month/year)	or carner application	national application: country	regional application:* regional Office	international application: receiving Office
item (1)				
item (2)				
item (3)				
item (4)	•			
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item (5)				
Further priority claims a	are indicated in the Suppleme	ntal Box.		
The receiving Office is reque if the earlier application was a above as:	ested to prepare and transmit t filed with the Office which for t	to the International Bureau the purposes of this internat	a certified copy of the extinuous the re	arlier application(s) (only ecciving Office) identified
all items item (1) item (2)	item (3) item ((4) item (5)	other, see Supplemental Box
* Where the earlier application Industrial Property or one Mo	on is an ARIPO application, in ember of the World Trade Org	dicate at least one country p ganization for which that ea	party to the Paris Conver arlier application was file	
Box No. VII INTERNAT	IONAL SEARCHING AUT	HORITY		
Choice of International Sea international search, indicate ISA / US	rching Authority (ISA) (if tw the Authority chosen; the two-	vo or more International Se letter code may be used):	arching Authorities are c	ompetent to carry out the
	rlier search: reference to th	unt soorsh (if an andian and		
International Searching Author Date (day/month/year)	rlier search; reference to th ority): Numbe		irch has been carried out sy (or regional Office)	by or requested from the
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Box No. VIII DECLARATIONS				
The following declarations a check-boxes below and indicate	tre contained in Boxes Nos. Vete in the right column the number	VIII (i) to (v) (mark the app ber of each type of declarate	plicable ion):	Number of declarations
Box No. VIII (i)	Declaration as to the identity	of the inventor		:
Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent:				
Box No. VIII (iii)	Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :			
Box No. VIII (iv)	Declaration of inventorship United States of America)	(only for the purposes of the	he designation of the	:
Box No. VIII (v)	Declaration as to non-prejud	ficial disclosures or except	ions to lack of novelty	:

Sheet	Nia	4	
Sileet	IXO	-	

Box No. IX CHECK LIST; LANGUAGE OF FILING			
This international application contains: (a) the following number of	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in the character of	ing Number of items	
sheets in paper form: request (including	right column the number of each item): 1. ☐ fee calculation sheet	: 1	
request (including declaration sheets) : 4	2. 🙀 original separate power of attorney	- ·	
description (excluding sequence listing part) : 12	3. original general power of attorney	2	
claims : 3	4. copy of general power of attorney; reference number	r,	
· abstract : 1	if any:	·····:	
drawings : 3	5. statement explaining lack of signature	:	
Sub-total number of sheets: 23	6. priority document(s) identified in Box No. VI as item(s):		
sequence listing part of description (actual number of sheets if filed in paper	7. translation of international application into (language):		
form, whether or not also filed in computer readable form; see (b) below) : 0	8. separate indications concerning deposited microorga or other biological material	anism :	
Total number of sheets : 23	9. sequence listing in computer readable form (indicate and number of carriers (diskette, CD-ROM, CD-R or	other))	
(b) sequence listing part of description filed in computer readable form	(i) copy submitted for the purposes of internation under Rule 13ter only (and not as part of the international application)	nal search	
(i) only (under Section 801(a)(i))	(ii) (only where check-box (b)(i) or (b)(ii) is mark	: red in left	
(ii) in addition to being filed in paper form (under Section 801(a)(ii)) Type and number of carriers (diskette,	column) additional copies including, where a the copy for the purposes of international sear	pplicable,	
CD-ROM, CD-R or other) on which the	Rule 13 <i>ter</i> (iii) together with relevant statement as to the iden		
sequence listing part is contained (additional copies to be indicated under item 9(ii), in	I of the convor copies with the sequence listing	g part	
right column):	mentioned in left column Postcard Receipt 10. other (specify):	: 2	
Figure of the drawings which	10. (y other (specify): G. Scantlebury States Language of filing of the	ent.	
should accompany the abstract: 1	international application: English		
Box No. X SIGNATURE OF APPLICAN			
Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).			
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	Turny Willend		
	Gregory N. Clements	İ	
	Agent/Attorney		
For receiving Office use only			
1. Date of actual receipt of the purported	- 1 of 1 o	2. Drawings:	
international application:			
 Corrected date of actual receipt due to later b timely received papers or drawings completing the purported international application: 	ut eg	received:	
Date of timely receipt of the required corrections under PCT Article 11(2):		not received:	
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid		
For Internal Province			
Date of receipt of the record copy by the International Bureau:			
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This sheet is not part of and does not count as a sheet of the international application.

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FEE CALCULATION SHEET	
	International Application No.
Annex to the Request	pproducti (vo.
Applicant's or agent's file reference 2001/13 PCT	Date stamp of the receiving Office
Applicant	
ARTEVA TECHNOLOGIES S.a.r.l., et al.	·
CALCULATION OF PRESCRIBED FEES	
1. TRANSMITTAL FEE	240.00 丁
2. SEARCH FEE	700.00 [5]
International search to be carried out by US	700.00 [3]
(If two or more International Searching Authorities are competent to carry ou search, indicate the name of the Authority which is chosen to carry out the inte	t the international ernational search.)
3. INTERNATIONAL FEE	
Basic Fee	i
Where item (b) of Box No. IX applies, enter Sub-total number of sh	neets } 23
Where item (b) of Box No. 1X does not apply, enter Total number of	(1
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b2 0 x 9.00 =	0 Б2
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additional component (only if sequence listing part of descriptions is filed in component (only if sequence listing part of descriptions)	on
is filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)):	
400 x =	0 Б3
fee per sheet	
Add amounts entered at b1, b2 and b3 and enter total at B	407.00 B
Designation Fees	
The international application contains 94 designations.	
	440.00 D
number of designation fees amount of designation fee payable (maximum 6)	
Add amounts entered at B and D and enter total at I	847.00 I
(Applicants from certain States are entitled to a reduction of 75% international fee. Where the applicant is (or all applicants are) so entitled, it to be entered at 1 in 25% of the control of the cont	of the he total
to be entered at 1 is 25% by the sum of the amounts entered at B and D.)	II
4. FEE FOR PRIORITY DOCUMENT (if applicable)	0 P
5 TOTAL FEED BANADA	
5. TOTAL FEES PAYABLE	1787.00 TOTAL
	X LIGIAL
The designation fees are not paid at this time.	
MODE OF PAYMENT	
authorization to charge deposit account (see below) postal money order	cash coupons Credit Card
cheque bank draft	revenue stamps other (specify): Payment Form
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOU	INT
(This mode of payment may not be available at all receiving Offices)	Receiving Office: RO/ US
Authorization to charge the total fees indicated above.	Deposit Account No.: 04-1448
(This check-box may be marked only if the conditions for deposit accounts	Date: 3 January 2002
of the receiving Office so permit) Authorization to charge any deficiency	
or credit any overpayment in the total fees indicated above.	Name: Gregory N. Clements
Authorization to charge the fee for priority document.	Signature: Lyong Whent
Form PCT/RO/101 (Annex) (March 2001; reprint July 2001)	See Notes to the fee calculation sheet

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):
ARTEVA TECHNOLOGIES S.A.R.L. Talstrasse 80 8001, Zurich CH
· ·
hereby appoints (appoint) the following person as:
Name and address (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)
CLEMENTS, Gregory N., and DOUGHERTY, Ralph H.
DOUGHERTY & CLÉMENTS LLP 6230 Fairview Road, Suite 400 Charlotte, North Carolina 28210 US
to represent the undersigned before all the competent International Authorities
the International Searching Authority only
the International Preliminary Examining Authority only
in connection with the international application identified below:
Title of the invention: COMBINATION AIR SHIELD AND TENSION GATE APPARATUS AND OPERATING PROCESS
Applicant's or agent's file reference: 2000/13 PCT
International application number (if already available):
filed with the following Office US as receiving Office and to make or receive payments on behalf of the undersigned.
Signature of the applicant(s) (where there are several applicants, each of them must sign: next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):
Carolly Reculted
Geoffrey R./Scantlebury Director of Technology
Date: Rec 13 7001

PATENT COOPERATION TREATY

International Application No.:

International Filing Date:

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Agent's File Reference:	Docket 2001/13 PCT
Applicant:	Arteva Technologies S.à.r.l, et al.
Title:	COMBINATION AIR SHIELD AND TENSION GATE APPARATUS AND OPERATING PROCESS
	Charlotte, North Carolina December 13, 2001
Commissioner of Patents and T	Frademarks
Box PCT Washington, D.C., 20231	
20251	
	·
Dear Sir:	
The undersigned (whose Attorney on behalf of the applications Switzerland.	e title is supplied below) is empowered to sign the Power of ant Arteva Technologies S.à.r.l., of Talstrasse 80, 8001 Zurich,
	Respectfully submitted,
Pec 13 Love	10011

Director of Technology

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated DeBenedictis, Mach A. 184 Longboat Road Mooresville, North Carolina 28117-8202 US	d as they appear in the request):
hereby appoints (appoint) the following person as: Name and address (Family name followed by given name; for a legal entity, full of CLEMENTS, Gregory N., and DOUGHERTY, FDOUGHERTY & CLEMENTS LLP 6230 Fairview Road, Suite 400 Charlotte, North Carolina 28210 US	agent common representative official designation. The address must include postal code and name of country.) Ralph H.
to represent the undersigned before	all the competent International Authorities the International Searching Authority only the International Preliminary Examining Authority only
in connection with the international application identifie	ed below:
Title of the invention: COMBINATION	N AIR SHIELD AND TENSION GATE AND OPERATING PROCESS
Applicant's or agent's file reference: 2	2001/13 PCT
International application number (if al	ready available):
filed with the following Office US and to make or receive payments on behalf of the under	signed. as receiving Office
Signature of the applicant(s) (where there are several applicants the capacity in which the person s	e, each of them must sign: next to each signature, indicate the name of the person signing and eigns, if such capacity is not obvious from reading the request or this power):
	Mach A. DeBenedictis Applicant/Inventor
Date: 17-DECEMBER - 2001	